• HMCI 125F-EH

MOVABLE TYPE AIR CONDITIONER
WITH OZONE-FRIENDLY R410A REFRIGERANT

USER'S MANUAL

CAUTION:

PLEASE READ CAREFULLY THIS MANUAL BEFORE OPERATING YOUR NEW AIR CONDITIONER.

HOKKAIDO

TERMAL S.R.L. Via della Salute, 14 -- 40132 -- Bologna -- ITALY

EN EUROPEAN REGULATIONS CONFORMITY FOR THE MODELS:

Unit Model: **HMCI 125 F-EH**

CE

All the products are in conformity with the following European provision:
- Low Voltage Directive 73/23/EEC
- Low Voltage Directive 2006/95/EC
- Electromagnetic CompatibilitY 89/336/EEC
- Electromagnetic CompatibilitY 2004/108/EC

ROHS

The products are fulfilled with the requirements in the directive 2002/95/EEC of the European parliament and of the council on the Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment (EU RoHS Directive)

WEEE

In accordance with the directive 2002/96/CE of the European parliament, herewith we inform the consumer about the disposal requirements of the electrical and electronic products.

DISPOSAL REQUIREMENTS:

Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste. Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other part must be done by a qualified installer in accordance with relevant local and national legislation. Air conditioners must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information. Battery must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.

President
Giorgio Giatti

Table of Contents

PRODUCT FEATURES 4

SAFETY PRECAUTIONS 5

OPERATING CONDITIONS & ACCESSORIES 8

EXTERNAL APPEARANCE OF THE UNIT 9

CONTROL PANEL & LED DISPLAY 10

OPERATING INSTRUCTIONS 11

IR REMOTE CONTROL 13

INSTALLATION 27

MAINTENANCE 33

TROUBLESHOOTING 35

- No special installatio work is required. You only have to put the end of the exhaust hot air duct to a nearby window.

- You can modify all operating parameters by pressing the high-sensitive buttons on the front panel of the air conditioner.

- The digital display on the front panel shows useful information about the air conditioner's operation.

- It is very easy to move the air conditioner from one room to another, thanks to the casters mounted at the bottom of the Unit.

- According to the User's needs, also a permanent installation mode is available.

- It is possible to program the air conditioner's start and stop by TIMER function.

- The condensate is automatically evaporated and conveyed outside through the flexible pipe in Cooling mode.

- This air conditioner is equipped with a high-reliability and low noise level compressor.

- The electronics inside the air conditioner provide several protection functions able to stop the Unit automatically in case of abnormalities during operation.

⚠ **Warning**	**"Heating" function is carried out by an electric resistance of 1900 W.** **In this operating mode, the compressor is off.** **PAY ATTENTION TO ENERGY CONSUMPTION!**

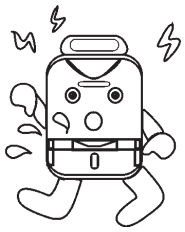
• To take best advantage from your new air conditioner and for correct operation, please read carefully this Manual.
• Hazard and safety levels are shown via warning and alert signs as listed below.

Warning	May result in life-threatening danger or severe injury if operated incorrectly.
Caution	May result in injury or damages to property and assets if operated incorrectly.

• In this Manual, the meaning of each symbol is as follows:

	This symbol indicates prohibitive.
	This symbol indicates please follow the instructions.
	This symbol indicates to disconnect the power plug.

Caution



• When moving the Unit, make sure to turn off the power as water spilled from the water tank may lead to hazards such as electroshock or fire.

• Locate the Unit on a horizontally-leveled surface to avoid water leakage or hazard such as electroshock or fire.

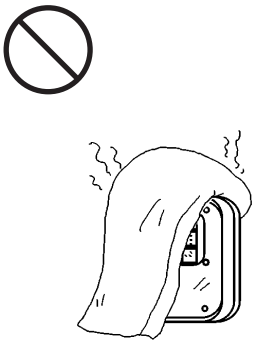
• If you choose the continuous drainage option (see further on) please check the drain hose is properly placed to avoid any leakage.

• Iftheroomtemperature falls below 0°C, the drain hose may freeze; this may result in water leakage and damages to the furniture.

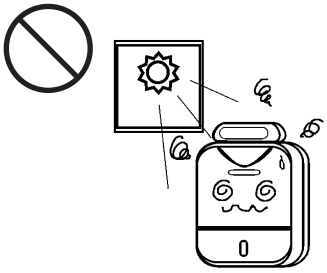
• Before cleaning the unit, turn it off and disconnect the power plug as the fan rotation may result in safety hazard.

• In case of extended idle, please remove the power plug from the power outlet to prevent electroshock or fire.

Caution

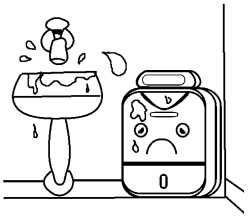


• Never block the blowout vent or intake vent with clothing or rags.

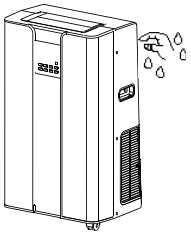


• The air conditioner is designed for indoor use; exposure to direct sunlight or rain may cause electroshock or fire.

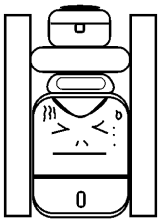
• Do not place the Unit near fuel or combustible gas thus preventing fire hazard or inflammable gas leakage.



• Do not expose the Unit to moisture as this may lead to electroshock or fire.

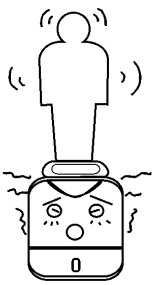


• Do not spurt water on the Unit as this may cause electroshock. Never touch the air conditioner with wet hands.



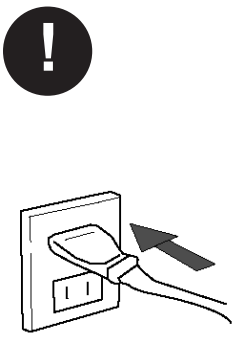
• Never install the Unit in narrow spaces.

• Do not extend or shorten the power cord.

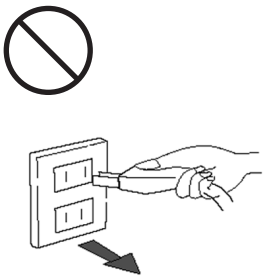


• Never attempt to sit or ride on the Unit as this may lead to injury through accidental fall.

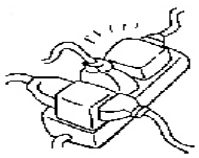
⚠ Warning



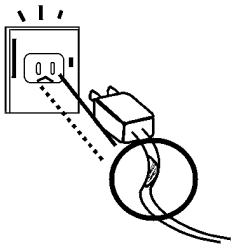
• Keep the power plug clean from dust and make sure it is securely inserted into the wall receptacle.



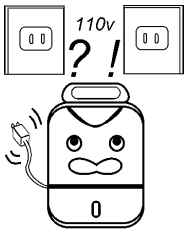
• Never turn on and off the air conditioner by plugging and unplugging the power tap from the wall receptacle.



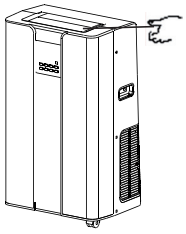
• Do not extend or overload the power cord to avoid hazards of electroshock, fire or overheating.



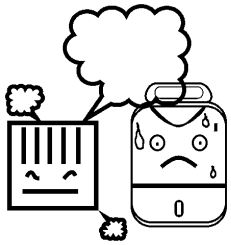
• Avoid the power cord to get overheated, as this may result in hazard of electroshock or fire.



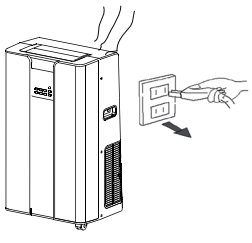
• Make sure the power value on the wall receptacle is correct (220V).
If not so, this may result in fire, electroshock or severe damage to the Unit.



• Do not insert any sharp objects into the intake or blowout vent as the fan rotating at high speed may cause injuries to people and short circuiting on the Unit.



• Keep the Unit away from heating appliances as this may cause melting or combustion of the plastic shield.



• If the air conditioner should emit any burning smells, immediately stop it; disconnect the power plug from the wall receptacle and contact your dealer or the nearest Authorized Service Center.

OPERATING CONDITIONS & ACCESSORIES

- In order to obtain the best performance of the appliance, it is recommended its use according to the following conditions:

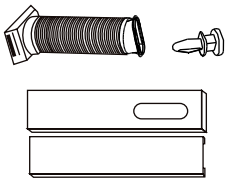
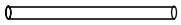
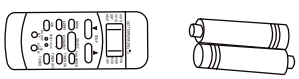
OPERATION MODE	ROOM TEMPERATURE
COOLING	17°C ~ 35°C
DRY	13°C ~ 35°C
HEATING	5°C ~ 30°C

Note: Performance may be reduced outside of these operating temperatures.

Energy Save

- Use the Unit in the recommended room size.
- Locate the Unit where furniture cannot obstruct the air flow.
- Keep blinds/curtains closed during the sunniest part of the day.
- Keep the filters clean.
- Keep doors and windows closed to keep cool air in and warm air out (cooling mode) or keep warm air in and cool air out (heating mode).

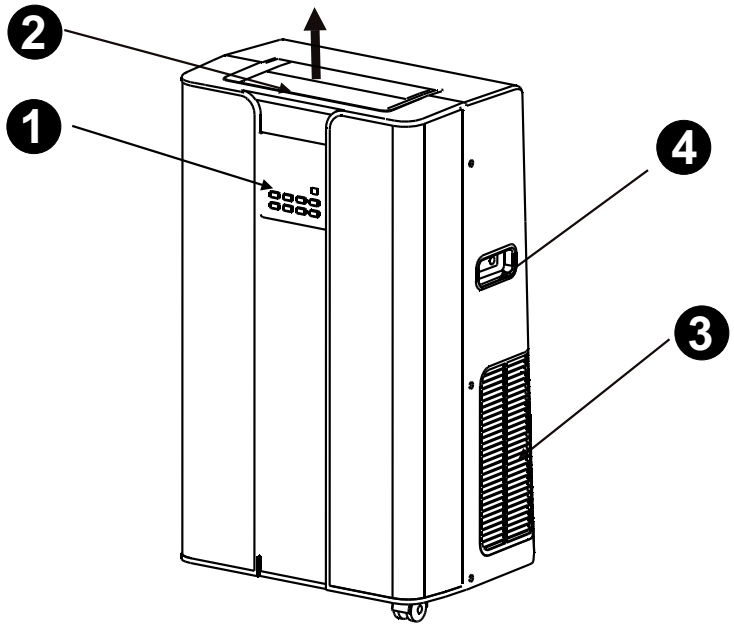
Accessories

COMPONENT	PART'S NAME	QUANTITY
	Exhaust hose with adapter B Window Slider Kit & screw	1 set
	Drain Hose (For continuous drainage)	1 pc
	Foam seal	3 pc
	IR Remote Control & Batteries	1 set

- Please check all the accessories are included in the package and please refer to the installation instructions for their usage.

NAMES OF PARTS

Front view



❶ Operation Panel

❷ Horizontal Louver Blade (Lift it up during operation)

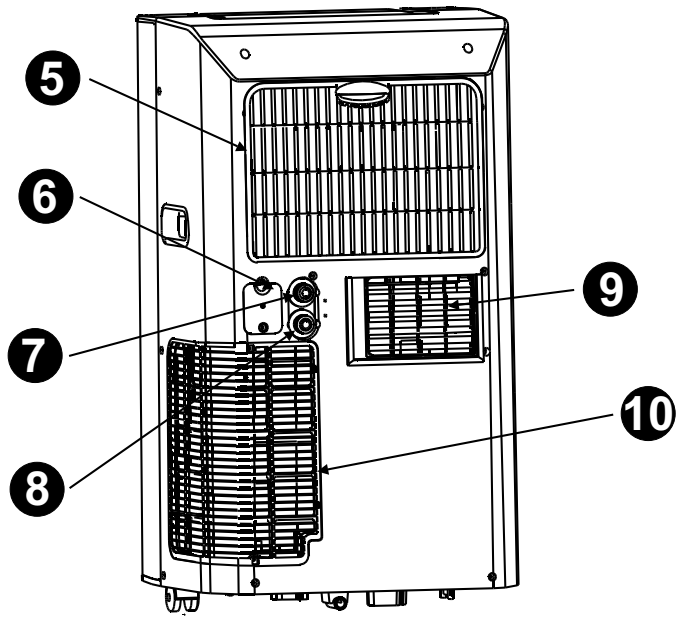
❸ Air intake (air filter inside)

❹ Carrying Handle (both sides)

NOTE: *The illustrations are for explanation purposes only. The actual shape of the machine you purchased may be slightly different.*

Fig.1

Rear view



❺ Air intake

❻ Power cord outlet

❼ Drain Outlet A (Used on Dehumidifying operation)

❽ Drain Outlet B (Used on Heating operation)

❾ Air Outlet

❿ Air intake (Air filter inside)

Fig.2

OPERATION PANEL OF THE AIR CONDITIONER

Before you begin, thoroughly familiarize yourself with the Control Panel, the Remote Control and all their functions, then follow the symbol for the functions you desire.

The Unit can be controlled by the Control Panel alone or with the IR Remote Control.

CONTROL PANEL & LED DISPLAY

NOTE: The following illustration is for explanation purposes only. The actual shape of the Control Panel of the Unit may be slightly different. But the functions are the same.

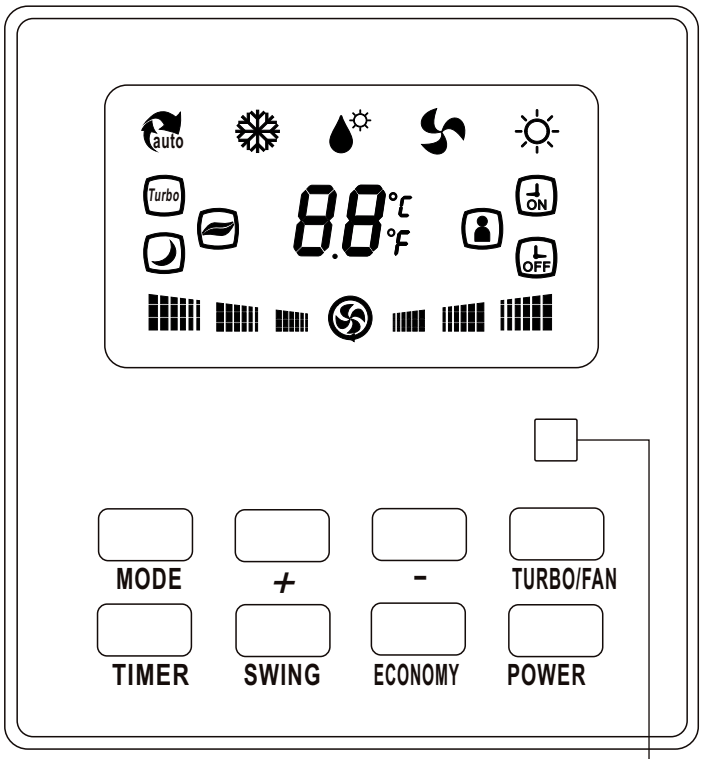


Fig.3 Remote signal receiver

INDICATOR LIGHTS OF DISPLAY WINDOW

- Timer on indicator (Programmed automatic start)
- Timer off indicator (Programmed automatic stop)
- Auto operation indicator
- Cooling operation indicator
- Dry operation indicator
- Fan operation indicator
- Heating operation indicator

Fan speed indicator

Low

Med

Hi

Auto: illuminates gradually.

- Economy operation (Energy Save)
- Turbo display
- Clean Air operation (optional)
- Follow me indicator

Display

Shows the set temperature in "°C" or "°F" and the Error Codes.

Error Codes:

E1 - Room temperature sensor error
Unplug the Unit and plug it back. If error repeats, please call the Authorized Technical Service.

E2 - Evaporator temperatire sensor error
Unplug the Unit and plug it back. If error repeats, please call the Authorized Technical Service.

E3 - Condenser temperature sensor error
Unplug the Unit and plug it back. If error repeats, please call the Authorized Technical Service.

E4 - Display panel communication error
Unplug the Unit and plug it back. If error repeats, please call the Authorized Technical Service.

Protection Codes:

P1 - Bottom tray is full
Remove the bottom drain plug and drain off the water.

NOTE: When P1 displays under COOL mode (or AUTO COOL mode) or DRY mode, the Unit will stop operation, but the upper fan motor will continue to operate, and the lower fan motor will be controlled at high speed.
When P1 displays under HEAT mode, the Unit and all fan motors will stop operation.

Button functions on Control Panel

❶ **MODE button**
Press the MODE button to select the appropriate operating mode:

❷ **+ / – UP/DOWN buttons**

- Used to adjust (increasing/decreasing) temperature settings (1°C/2°F) in a range of 17°C(62°F) to 30°C(88°F).
  NOTE: The control is able of displaying temperature in degrees Fahrenheit or degrees Celsius. To convert from one to the other, press and hold the Up & Down buttons at the same time, for 3 seconds.

- UP/DOWN buttons are also used for setting Timer interval for programmed automatic start/ stop of the Air Conditioner.
  At each press of UP (+) button or DOWN (-) button, time increases by 30 minutes up to 10 hours, and by 60 minutes from 10 to 24 hours.

❸ **TURBO/FAN button**
Press the TURBO/FAN button to select the desired fan speed:

LOW → MED → HI → TURBO → AUTO

NOTE: The TURBO feature is used to set the strong fan speed: in this way, the set temperature will be reached in the shortest time.
This feature is available in COOL mode only.

FAN OPTIONS:
AUTO mode (1 speed) **AUTO**
COOL mode (5 speeds) **Low-Med-Hi-Turbo-Auto**
DRY mode (1 speed) **LOW**
FAN mode (4 speeds) **Low-Med-Hi-Auto**
HEAT mode (4 speeds) **Low-Med-Hi-Auto**

❹ **TIMER button**
Used to select the Air Conditioner's programmed automatic start **AUTO ON** or automatic stop **AUTO OFF**. After pressing this button, press **+** / **-** buttons for selecting the desired time interval.

❺ **SWING button**
Allows the horizontal louver blades to oscillate forward and backward to the desired position.
Each press will change the swing angle for 6°.
If you keep pressing the button without releasing it for more than 2 seconds, the louver blades would oscillate forward and backwards automatically.

❻ **ECONOMY button**
If you press this button, the indicator will be displayed and the selected temperature will increase (Cooling) or decrease (Heating) by 1°C / 2°F in 30 minutes.
The temperature will then increase (Cooling) or decrease (Heating) by another 1°C / 2°F after an additional 30 minutes. This new temperature will be maintained for 7 hours before it returns to the originally selected temperature. This ends the Economy mode and the Unit will continue to operate as originally programmed.
The Economy mode program can be cancelled at any time during operation by again pressing the ECONOMY button, or pressing the POWER, MODE or FAN button.

❼ **POWER button**
To start / stop the Unit.

Other features

Auto-Restart

If the Unit stops because of a blackout, it will restart with the previous function settings automatically when the power resumes.

Operating Instructions

COOL operation

- Press the “MODE” button until the “COOL” indicator lights up.
- Press UP/DOWN + / - buttons to select your desired room temperature. The temperature can be set within a range of 17°C ~ 30°C (62°F ~ 88°F).
- Press the “TURBO/FAN” button to choose the fan speed.

HEAT operation

- Press the “MODE” button until the “HEAT” indicator lights up.
- Press UP/DOWN + / - buttons to select your desired room temperature. The temperature can be set within a range of 17°C ~ 30°C (62°F ~ 88°F).
- Press the “TURBO/FAN” button to choose the fan speed.

DRY operation

- Press the “MODE” button until the “DRY” indicator lights up.
- Under this mode, you cannot select a fan speed or adjust the temperature. The fan motor operates at LOW speed.
- Keep windows and doors closed for the best dehumidifying effect.
- Do not put the duct to window.

AUTO operation

- When you set the Air Conditioner in AUTO mode, it will automatically select Cooling, Heating or Fan only operation depending on what temperature you have selected and the room temperature.
- The Air Conditioner will control room temperature automatically round the temperature point set by you.
- Under AUTO mode, you cannot select the fan speed.

FAN operation

- Press the “MODE” button until the “FAN” indicator lights up.
- Press the “TURBO/FAN” button to choose the fan speed. The temperature cannot be adjusted.
- Do not put the duct to window.

TIMER operation

- When the Unit is on, first press the “TIMER” button: the “TIMER OFF” indicator lights up to indicate that the Auto Stop of the Air Conditioner has been selected.
  Press the “TIMER” button again: the “TIMER ON” indicator ligths up to indicate that the Auto Start of the Air Conditioner has been selected.

- When the Unit is off, first press the “TIMER” button: the “TIMER ON” indicator lights up to indicate that the Auto Start of the Air Conditioner has been selected.
  Press the “TIMER” button again: the “TIMER OFF” indicator lights up to indicate that the Auto Stop of the Air Conditioner has been selected.

- Press UP/DOWN + / - buttons to select the time interval at the end of which the Air Conditioner will start or stop. At each press of UP (+) button or DOWN (-) button, time increases by 30 minutes up to 10 hours, and by 60 minutes from 10 to 24 hours.

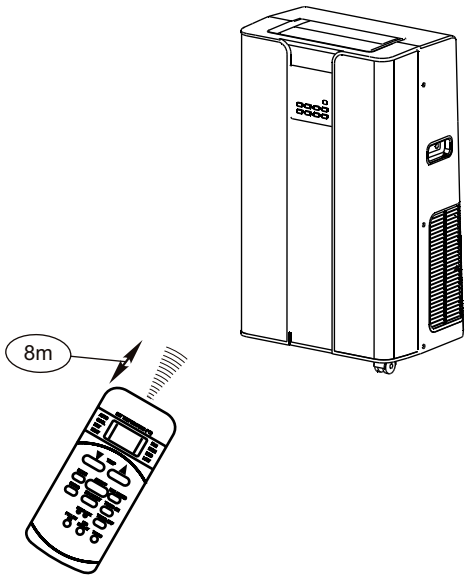
- The selected time interval will ve displayed for 5 seconds, then set temperature will be displayed.

Follow Me operation ( )

This feature can be activated by the Remote Control ONLY. The Remote Control serves as a remote thermostat allowing for the precise temperature control at its location.

To activate the Follow Me feature, point the Remote Control towards the Unit and press the “Follow Me” button. The Remote Control’s display shows the actual temperature at its location. The Remote Control will send this signal to the Air Conditioner every 3 minutes interval until the “Follow Me” button is pressed again.
If the Unit does not receive the “Follow Me” signal during any 7 minutes interval, the “FOLLOW ME” indicator disappears to indicate the mode has ended.

Installation & correct use of remote controller



Max. allowed distance: 8 metres

1) Make sure the 2 batteries (“AAA” type, 1.5V) are fully charged and correctly fitted in the special slot on the remote controller, by respecting the polarity marked on the remote controller itself. The batteries' average life is of about 6 months ~ 1 year.

2) Use the remote controller by turning it towards the Indoor Unit at no more than 8 metres from the Unit itself.

3) The remote controller will not work properly if curtains, doors or other objects placed between the remote controller and the infrared receiver on the Indoor Unit do not allow the signal transmission.

4) If the remote controller is placed sideways as regards to the signal receiver, it will operate within a max. angle of 30° on the right or on the left from the receiver. If the remote controller is fixed on its wall bearing, it will work within a side distance of 0.5 metres on the right or on the left from the receiver.

5) If the infrared receiver on Indoor Unit is exposed to direct sunlight, the remote controller (and consequently the air conditioner) probably will not work properly.

6) In order to avoid interferences, keep the remote controller at least 1 metre away from Hi-Fi, TV, radio and in general from appliances generating electromagnetic fields.

7) If the remote controller stops to operate correctly, press “RESET” button on the remote controller to cancel current settings and restore factory defaults' settings. Check if correct operation of remote controller has been restored.

8) Do not wet the remote controller and prevent any liquid from falling into it.

9) Handle the remote controller with care and pay attention not to drop it nor place heavy objects on it. Keep it far away from heat sources such as heaters, cooking stoves, electric blankets, etc.

10) Never use solvents nor strong detergents for cleaning the remote controller. Only use a soft, clean and dry cloth.

Batteries' replacement

If after the transmission of a signal by remote controller the confirmation sound emitted by the Indoor Unit's buzzer is no more heard, or the indicator on remote controller's display does not light up, batteries must be replaced.
To open the battery case, see the Figure below.

CAUTION!

If after replacing batteries the remote controler does not work, remove batteries and reinsert them after a few minutes, or press the inner button "RESET" on remote controller.

• Always insert two new batteries of AAA type (1.5V) type of the same brand (never insert one new battery and one old battery, as this may cause a malfunction).

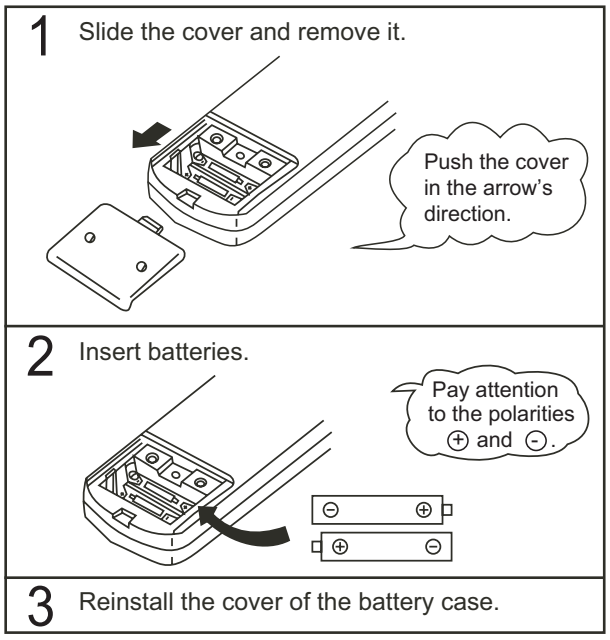
• Please observe the batteries' polarity ("+" / "-") marked on the battery case and on the batteries themselves.

• Before closing the battery case's cover, check if the remote controller displays "0:00" with flashing colon.

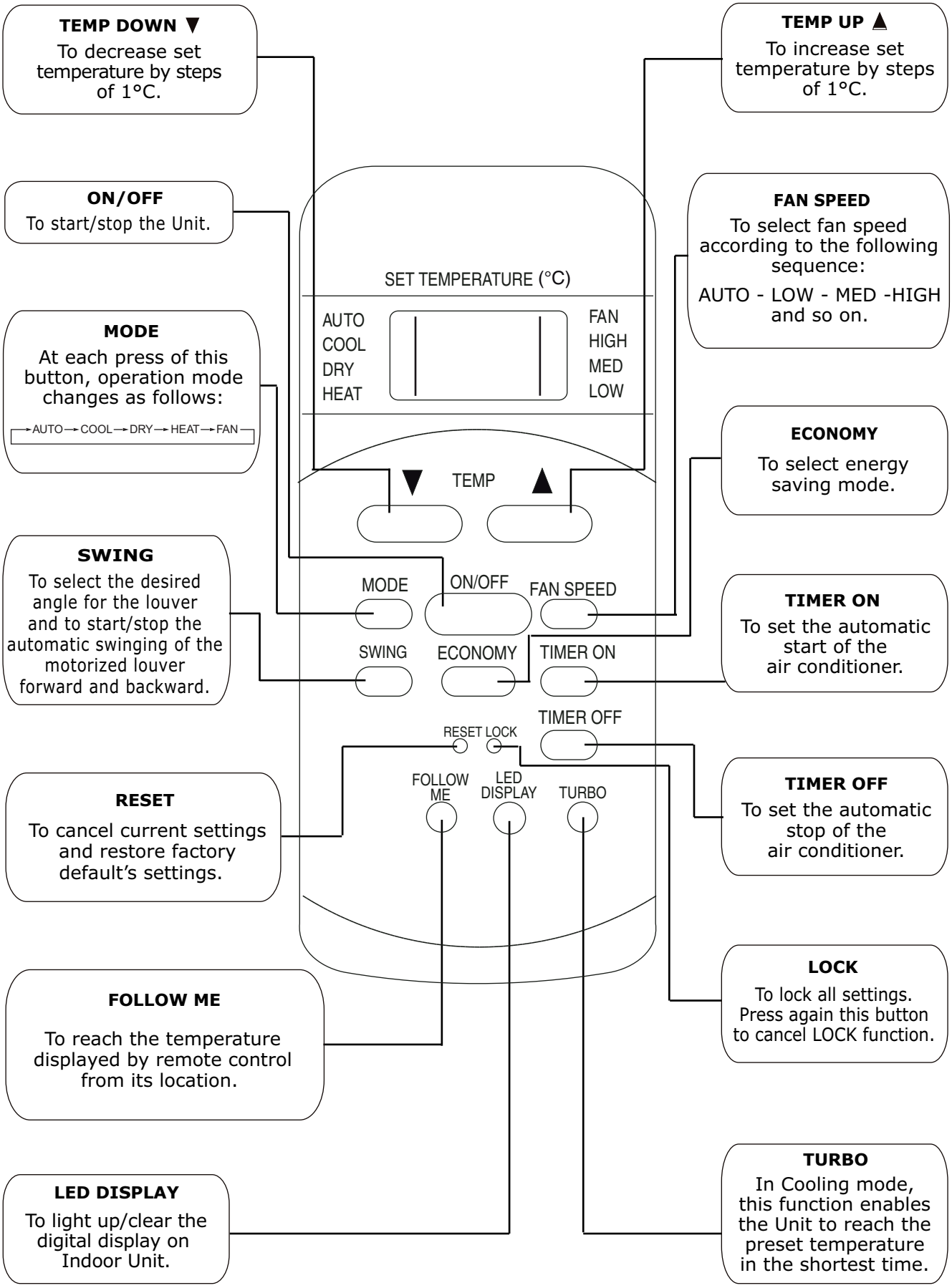
• Remove batteries from remote controller if you foresee not to use it for several weeks. A leakage of acid may damage the remote controller.

• Normal average life of a battery set is of about 6 months ~ 1 year.

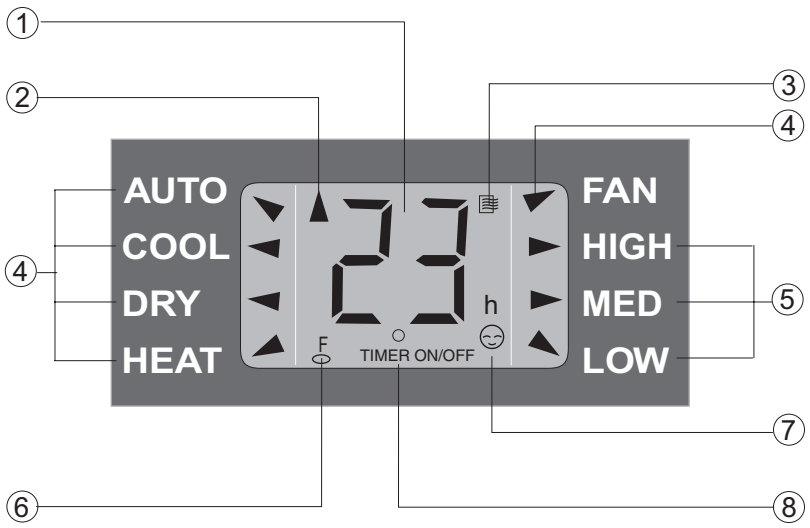
Batteries' replacement


1
Slide the cover and remove it.
Push the cover in the arrow's direction.
2
Insert batteries.
Pay attention to the polarities ⊕ and ⊖.
3
Reinstall the cover of the battery case.

Buttons' outline


TEMP DOWN ▼
To decrease set temperature by steps of 1°C.
TEMP UP ▲
To increase set temperature by steps of 1°C.
ON/OFF
To start/stop the Unit.
FAN SPEED
To select fan speed according to the following sequence:
AUTO - LOW - MED -HIGH and so on.
SET TEMPERATURE (°C)
AUTO
COOL
DRY
HEAT
FAN
HIGH
MED
LOW
MODE
At each press of this button, operation mode changes as follows:
AUTO → COOL → DRY → HEAT → FAN
TEMP
ECONOMY
To select energy saving mode.
SWING
To select the desired angle for the louver and to start/stop the automatic swinging of the motorized louver forward and backward.
MODE
ON/OFF
FAN SPEED
SWING
ECONOMY
TIMER ON
TIMER ON
To set the automatic start of the air conditioner.
TIMER OFF
RESET LOCK
FOLLOW ME
LED DISPLAY
TURBO
RESET
To cancel current settings and restore factory default's settings.
TIMER OFF
To set the automatic stop of the air conditioner.
LOCK
To lock all settings. Press again this button to cancel LOCK function.
FOLLOW ME
To reach the temperature displayed by remote control from its location.
TURBO
In Cooling mode, this function enables the Unit to reach the preset temperature in the shortest time.
LED DISPLAY
To light up/clear the digital display on Indoor Unit.

LCD panel outline



① **TEMPERATURE/TIMER DISPLAY:** It display set temperature (17°C to 30°C) and TIMER settings. If FAN mode is selected, there will be no display.

② **TRANSMISSION Indicator:** This transmission indicator will light when remote control transmits signals to the Indoor Unit.

③ **ON/OFF display:** This indicator will be displayed when the Unit is operating.

④ **MODE display:** Displays the current selected mode. Including AUTO, COOL, DRY, HEAT and FAN.

⑤ **FAN SPEED display:** Displays the selected fan speed: AUTO, HIGH, MED and LOW. Nothing displays when the fan speed is selected in AUTO speed. When AUTO or DRY mode is selected, there will be no signals displayed.

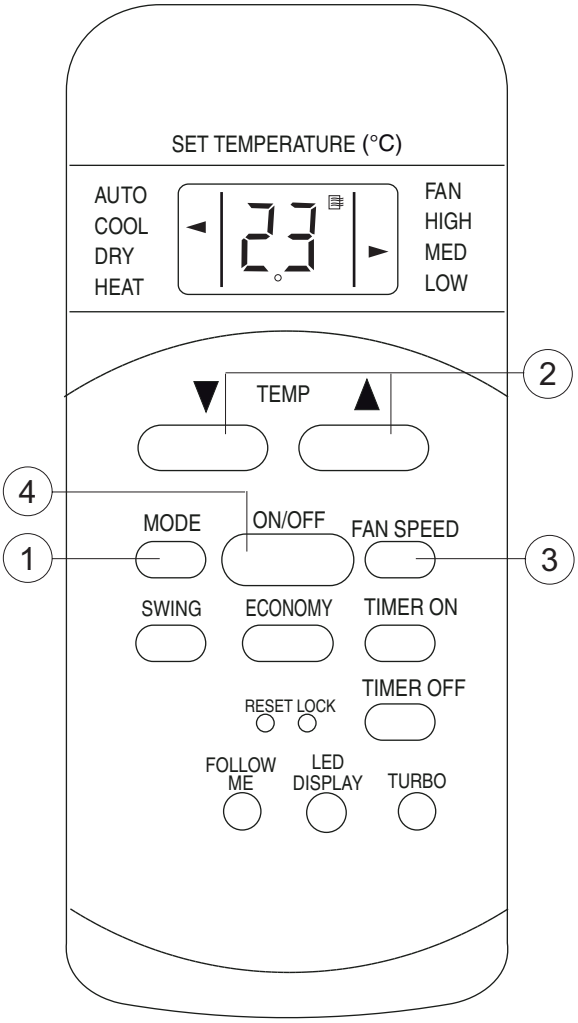
⑥ **LOCK Indicator:** If you press LOCK button, this symbol lights up to indicate that all buttons of remote control are locked and that current settings cannot be modified.

⑦ **FOLLOW ME display:** When pressing FOLLOW ME button in COOL or HEAT mode, the remote sensing function is activated and temperature value near remote control is displayed.

⑧ **TIMER display:** This display area shows the settings of the TIMER. That is, if only the Auto-on time function is set, it will display TIMER ON. If only the Auto-off time function is set, it will display TIMER OFF. If both functions are set, it will display TIMER ON OFF which indicates you have chosen both the Auto-on time and Auto-off time.

All Indicators are shown in the above Figure for explanation only. During real operation, the display will only show the Indicators corresponding to the User's selections.

COOL, HEAT, FAN Modes



Connecting/operating the air conditioner

Connect the air conditioner to the power source.

1. Select your desired operation mode by pressing "MODE" button:
   • COOL
   • HEAT
   • FAN

2. Press "TEMP" buttons to select your desired temperature.

3. Select your desired fan speed by pressing "FAN SPEED" button:
   - AUTO
   - LOW
   - MED
   - HIGH

4. Press "ON/OFF" button to start the air conditioner. In COOL & HEAT modes, operation starts after approximately 3 minutes; if you select FAN mode, the Unit will start immediately.

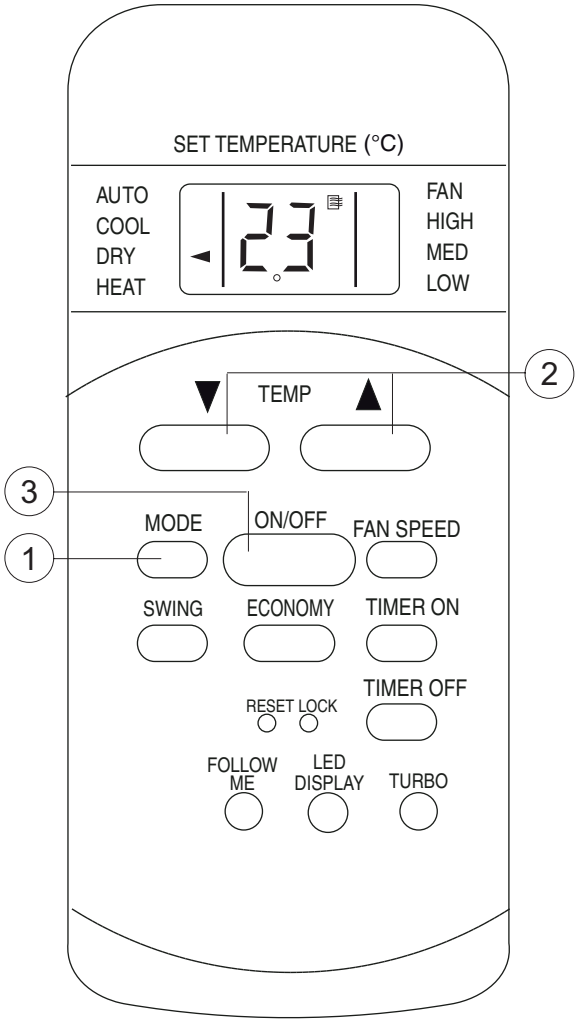
Stop

Press "ON/OFF" button on remote control to stop the air conditioner's operation.

NOTES:

1. In "FAN" mode, it is not possible to select your desired room temperature. Therefore, please move directly from above item No. 1 to item No. 3.
2. Operation in COOL, HEAT & FAN modes is memorized by the microcomputer, so if you would like to keep it for next operation of the air conditioner, you only need to press "ON/OFF" button on remote control. Set temperature and fan speed settings will be memorized too, so they will be the same at next restart of the air conditioner.
3. It is possible to change operation mode while the air conditioner is operating. However, the Unit will not immediately start operating according to the new mode, but a little delay is needed for carrying out a test and choosing new operating parameters.

DRY Mode

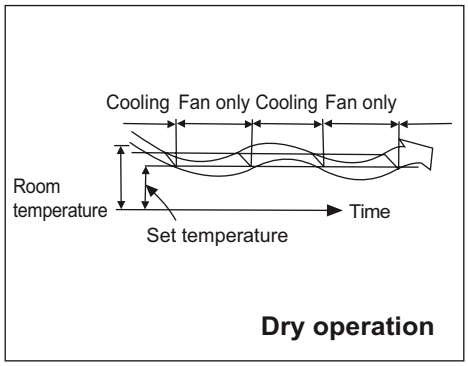


DRY mode is a Cooling mode at low fan speed; the refrigerant flow through indoor heat exchanger is compatible with low fan speed, so as to allow the condensation of room humidity without changing of air temperature.
Operation in DRY mode dries the air.

Connecting/operating the air conditioner

Connect the air conditioner to the power source.

1. Select "DRY" mode by pressing “MODE” button.
2. Select your desired temperature by pressing “TEMP” buttons.
3. Start the air conditioner by pressing “ON/OFF” button.



Dry operation

Detail of operation in DRY mode

Inner electronics automatically selects the operation mode according to the difference between set temperature and room temperature.
The temperature is regulated while dehumidifying by repeating turning on and off of the Cooling operation or Fan only. The fan speed is LOW.

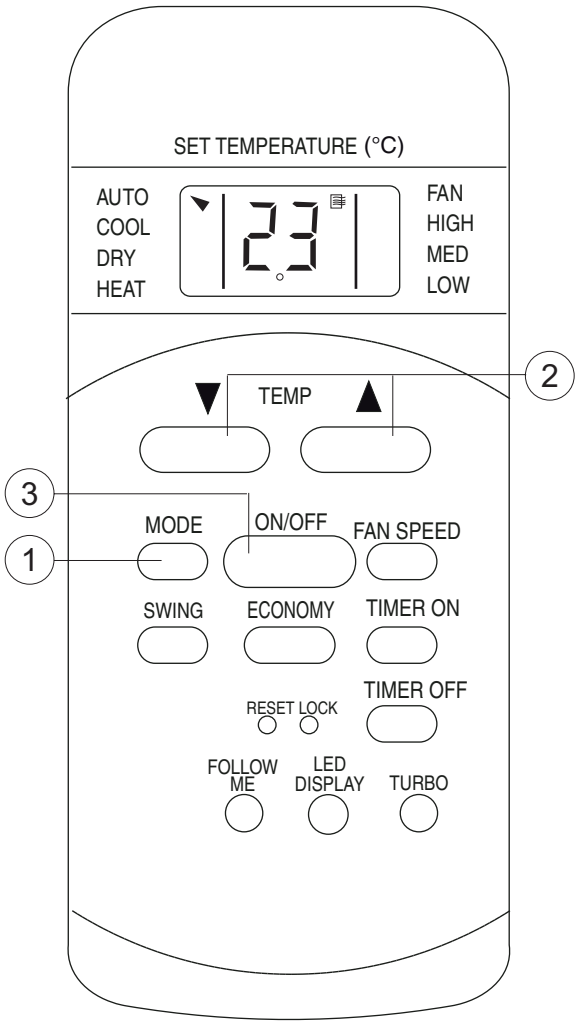
Stop

Press "ON/OFF" button on remote control to stop the air conditioner’s operation.

NOTES:

1. In "DRY" mode, it is not possible to select your desired fan speed, as it will be automatically controlled by the microcomputer (no fan speed indicator displays).
2. “DRY” mode, as well as other operation modes, is memorized by the microcomputer, so if you would like to keep it at next restart of the air conditioner, you only need to press “ON/OFF” button.
3. It is possible to change operation mode while the air conditioner is running in “DRY” mode. However, the Unit will not immediately start operating according to the new mode, but a little delay is needed for carrying out a test and choosing new operating parameters.

AUTO Mode



When AUTO mode is selected, the air conditioner automatically chooses the suitable operation settings according to room temperature and eventually to the temperature set by the User.
The four possible options are among: “COOL”, “DRY”, “HEAT”, “FAN”.

Connecting/operating the air conditioner

Connect the air conditioner to the power source.

1. Select "AUTO" mode by pressing “MODE” button.
2. Select your desired temperature by pressing “TEMP” buttons.
3. Press "ON/OFF" button to start the air conditioner.

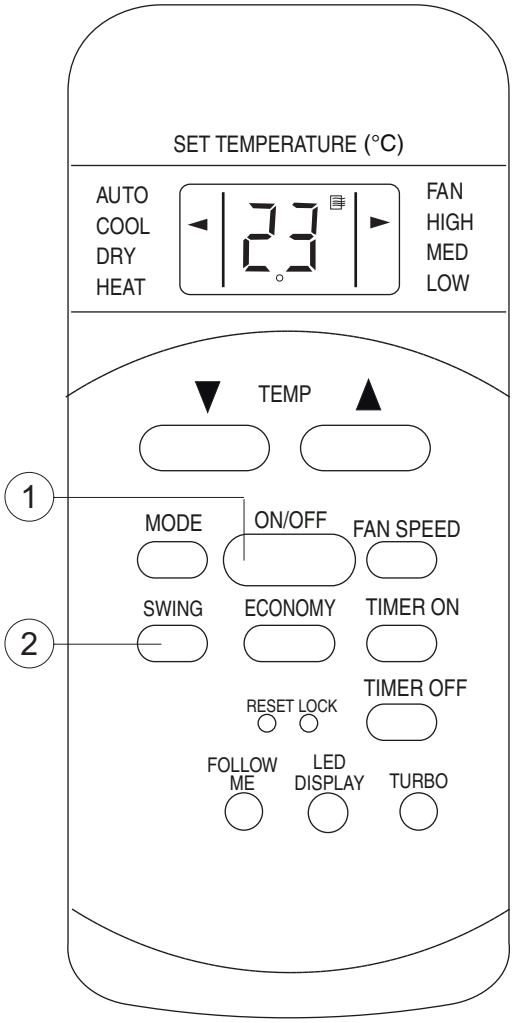
Stop

Press "ON/OFF" button on remote control to stop the air conditioner’s operation.

NOTES:

1. In "AUTO" mode, it is not possible to select your desired fan speed, as it will be automatically controlled by the microcomputer (no fan speed indicator displays).
2. “AUTO” mode, as well as other operation modes, is memorized by the microcomputer, so if you would like to keep it at nexr restart of the air conditioner, you only need to press “ON/OFF” button on remote controller.
3. It is possible to change operation mode while the air conditioner is running in “AUTO” mode. However, the Unit will not immediately start operating according to the new mode, but a little delay is needed for carrying out a test and choosing new operating parameters.

SWING Function



Outline of "Swing" function

Use the "SWING" button to adjust the position of motorized louver for airflow direction.

Connecting/operating the air conditioner

Connect the air conditioner to the power source.

1. Press "ON/OFF" button to start the air conditioner.

2. Press the "SWING" button to adjust the airflow direction.
   At each press of button, the airflow louver moves by 6°.
   Keep on pressing the button until reaching the desired position for the louver.

   If you keep the "SWING" button pressed for more than 2 seconds, the louver will swing automatically forward and backward.
   Press the "SWING" button again to stop the automatic swinging.

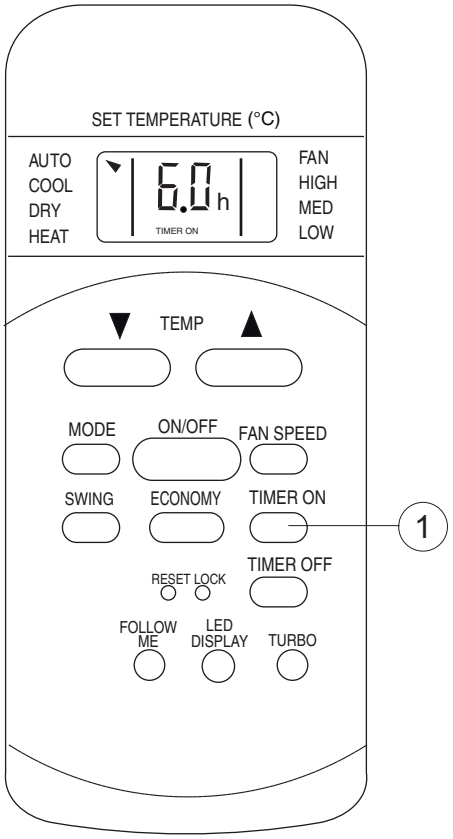
Stop

Press "ON/OFF" button on remote control to stop the air conditioner's operation.

NOTE:

- When the louver swings or moves to a position which would affect the cooling and heating effect of the air conditioner, it would automatically change the swing/moving direction.

TIMER ON (Programmed Start)



TIMER ON function allows you to program the automatic start of the air conditioner according to your needs.
In this way, the air conditioner will start operating at your desired time.

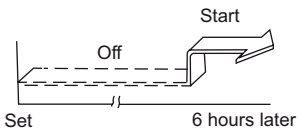
Programmed Start - TIMER ON

1. Press TIMER ON button: remote controller will display “TIMER ON” indication, the signal “h” and the digits for programming the setting. The remote controller is ready to receive the setting for TIMER ON.
2. Press again TIMER ON button for several times, till reaching your desired time for the air conditioner’s automatic start. At each press of the button, time increases by 30-minutes’ steps till 10 hours, and by 60-minutes‘ steps from 10 to 24 hours.
3. After 0.5 seconds since the time for programmed start was set, the remote controller will send settings to the Indoor Unit. After 2 seconds, the signal “h” will go out and remote control will display set temperature again.

CAUTION !

When “TIMER” function is selected, the remote controller automatically sends signals for programmed start/stop to the air conditioner. If you would like to be sure that these signals are received by the air conditioner, it is necessary to address the remote controller towards the Indoor Unit’s signal receiver, and check that no obstacles could affect the impulses’ transmission.

Example of TIMER ON setting



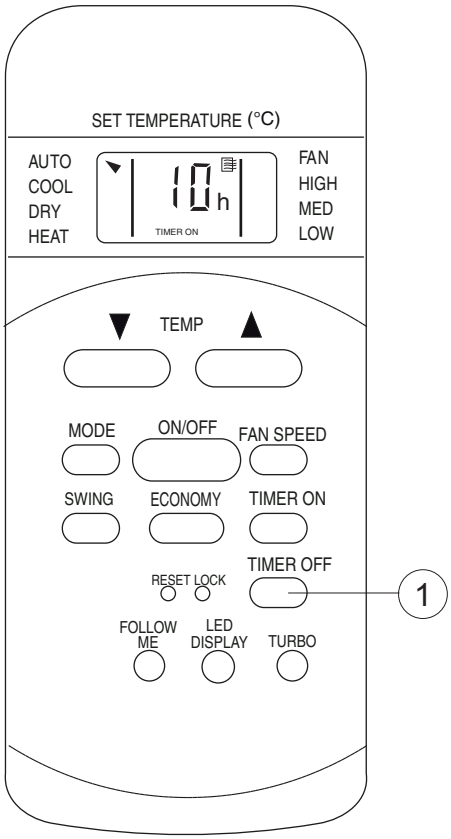
To start the air conditioner in 6 hours:

1. Press the TIMER ON button: the last setting of starting operation time and the signal “h” will show on the display area.
2. Press the TIMER ON button to display “6:0h” on the TIMER ON display of the remote controller.
3. Wait for 0.5 seconds: the TIMER ON indicator stops flashing and this function is activated. The digital display area will show the temperature again.

NOTES:

1. Time increases are 30-minutes’ steps till 10 subsequent hours, and 60-minutes’ steps from 10 to 24 hours. The remote controller’s Timer is not a clock, so it is necessary to set the time period - not the exact time - for programmed start.
2. Unlike operation modes, TIMER settings are not kept in memory by the microcomputer, therefore if a power failure occurs, TIMER settings will be cancelled and need to be set again.
3. Before selecting TIMER settings, it is possible to choose your desired operation mode.
4. TIMER max. range is 24 hours, i.e. it is not possible to operate weekly settings.
5. To modify TIMER settings, press again TIMER ON button and repeat the above procedure for TIMER ON setting.

TIMER OFF (Programmed Stop)



TIMER OFF function allows you to program the automatic stop of the air conditioner according to your needs.
In this way, the air conditioner will stop operating at your desired time.

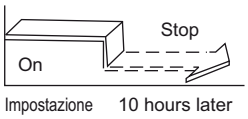
Programmed Stop - TIMER OFF

1. Press TIMER OFF button: remote controller will display “TIMER OFF” indication, the signal “h” and the digits for programming the setting. The remote controller is ready to receive the setting for TIMER OFF.
2. Press again TIMER OFF button for several times, till reaching your desired time for the air conditioner’s automatic stop. At each press of the button, time increases by 30-minutes’ steps till 10 hours, and by 60-minutes‘ steps from 10 to 24 hours.
3. After 0.5 seconds since the time for programmed stop was set, the remote controller will send settings to the Indoor Unit. After 2 seconds, the signal “h” will go out and remote control will display set temperature again.

CAUTION !

When “TIMER” function is selected, the remote controller automatically sends signals for programmed start/stop to the air conditioner. If you would like to be sure that these signals are received by the air conditioner, it is necessary to address the remote controller towards the Indoor Unit’s signal receiver, and check that no obstacles could affect the impulses’ transmission.

Example of TIMER OFF setting



To stop the air conditioner in 10.00 hours:

1. Press the TIMER OFF button: the last setting of stopping operation time and the signal “h” will show on the display area.
2. Press the TIMER OFF button to display “10h” on the TIMER OFF display of the remote controller.
3. Wait for 0.5 seconds; the TIMER OFF indicator stops flashing and this function is activated. The digital display area will show the temperature again.

NOTES:

1. Time increases are 30-minutes’ steps till 10 subsequent hours, and 60-minutes’ steps from 10 to 24 hours. The remote controller’s Timer is not a clock, so it is necessary to set the time period - not the exact time - for programmed stop.
2. Unlike operation modes, TIMER settings are not kept in memory by the microcomputer, therefore if a power failure occurs, TIMER settings will be cancelled and need to be set again.
3. Before selecting TIMER settings, it is possible to choose your desired operation mode.
4. TIMER max. range is 24 hours, i.e. it is not possible to operate weekly settings.
5. To modify TIMER settings, press again TIMER OFF button and repeat the above procedure for TIMER OFF setting.

COMBINED TIMER (Setting both ON and OFF timers simultaneously)

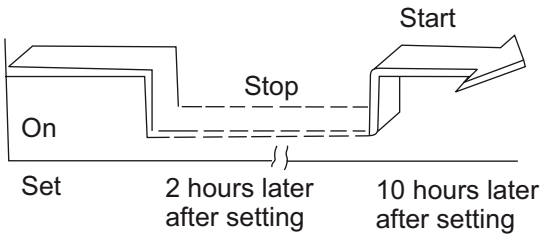
TIMER ON/OFF or TIMER OFF/ON function allows you to set the automatic start/stop or stop/start of the air conditioner at your desired time.

TIMER OFF / TIMER ON (On / Stop / Start operation)

This feature is useful when you want to stop the air conditioner after you go to bed, and start it again in the morning when you wake up or when you return home.

Example

To stop the air conditioner 2 hours after setting and start it again 10 hours after setting.



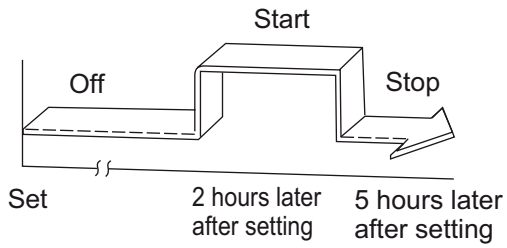
1. Press the TIMER OFF button.
2. Press the TIMER OFF button again to display “2.0h” on the TIMER OFF display.
3. Press the TIMER ON button.
4. Press the TIMER ON button again to display “10h” on the TIMER ON display.
5. Wait for the remote control to display the setting temperature.

TIMER ON / TIMER OFF (Off / Start / Stop operation)

This feature is useful when you want to start the air conditioner before you wake up and stop it after you leave the house.

Example

To start the air conditioner 2 hours after setting, and stop it 5 hours after setting.



1. Press the TIMER ON button.
2. Press the TIMER ON button again to display “2.0h” on the TIMER ON display.
3. Press the TIMER OFF button.
4. Press the TIMER OFF button again to display “0.5h” on the TIMER OFF display.
5. Wait for the remote control to display the setting temperature.

CAUTION !

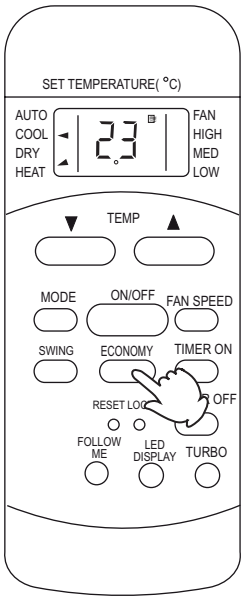
When “TIMER” function is selected, the remote controller automatically sends signals for programmed start & stop to the air conditioner. If you would like to be sure that these signals are received by the air conditioner, it is necessary to address the remote controller towards the Indoor Unit’s signal receiver, and check that no obstacles could affect the impulses’ transmission.

NOTES

1. Time increases are 30-minutes’ steps till 10 subsequent hours, and 60-minutes’ steps from 10 to 24 hours. The remote controller’s Timer is not a clock, so it is necessary to set the time period - not the exact time - for programmed start/stop.
2. Unlike operation modes, TIMER settings are not kept in memory by the microcomputer, therefore if a power failure occurs, TIMER settings will be cancelled and need to be set again.
3. Before selecting TIMER settings, it is possible to choose your desired operation mode.
4. TIMER max. range is 24 hours, i.e. it is not possible to operate weekly settings.

ECONOMY Mode

Before you go to bed, you can press SLEEP button and the air conditioner will run so as to make your sleep more comfortable.



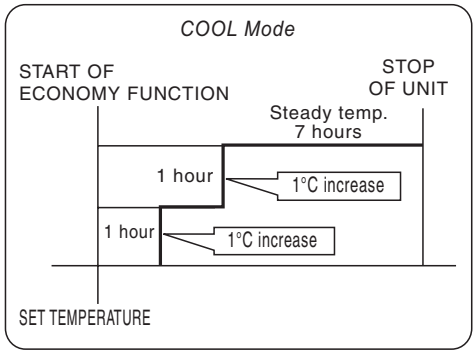
Use of ECONOMY function

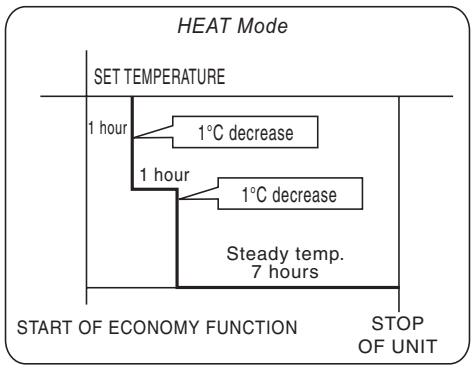
After the Unit's start, select COOL, HEAT or AUTO mode and then press the "ECONOMY" button once to activate "Economy" Energy Saving function.

In ECONOMY mode, fan speed is automatically controlled by inner electronics.

After 7 hours of continuous operation in ECONOMY mode, Unit will automatically stop.

ECONOMY function is available in COOL, HEAT and AUTO modes.





1. COOL Mode

After ECONOMY function has started off, set temperature increases by 1°C (2°F) each hour for 2 hours.
Then, ECONOMY mode runs at steady temperature and LOW fan speed.
Actual temperature is higher than set temperature to prevent the room from getting too cold.
This function also allows to save electricity.

2. HEAT Mode

After ECONOMY function has started off, set temperature decreases by 1°C (2°F) each hour for 2 hours.
Then, ECONOMY mode runs at steady temperature and LOW fan speed.
Actual temperature is lower than set temperature to prevent the room from getting too hot.
This function also allows to save electricity.

3. AUTO Mode

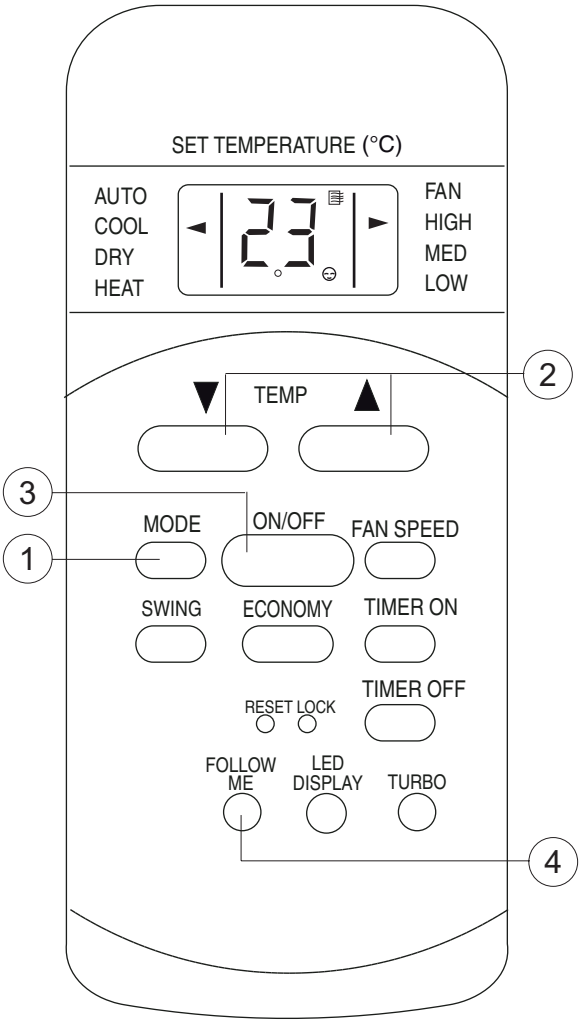
ECONOMY function runs according to AUTO operation mode.

To cancel ECONOMY function

Press "ECONOMY" button again to cancel the function.

WARNING! If Unit is operating and ECONOMY function has been selected, the function is cancelled if whatever button of remote control is pressed.

FOLLOW ME Mode



Outline of “Follow Me” function

In “Follow Me” function, remote control operates as a remote thermostat, allowing a precise control of temperature from its location.

Connecting/Operating the air conditioner

Connect the air conditioner to the power source.

1. Select your desired operation mode by pressing “MODE” button.

2. Select your desired temperature by pressing “TEMP” buttons.

3. Press "ON/OFF" button to start the air conditioner.

4. Address the remote control towards the Indoor Unit and press the “FOLLOW ME” button.
   The remote control displays actual temperature from its location.
   The remote control sends this signal to the Unit every 3 minutes, till the button is pressed again.
   If the Unit does not receive “Follow Me” signal for 7 minutes, the Unit will beep to indicate that “Follow Me” feature has ended.

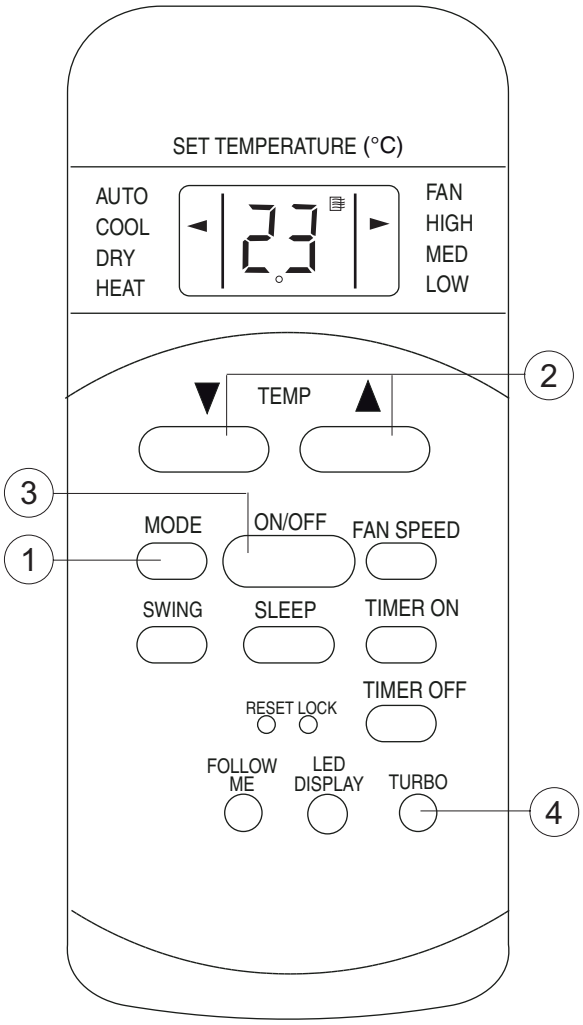
To cancel FOLLOW ME function

Press again the “FOLLOW ME” button to cancel the function.

Stop

Press "ON/OFF" button on remote control to stop the air conditioner’s operation.

TURBO function



Outline of "Turbo" function

"Turbo" function allows you to reach your desired temperature more quickly.
"TURBO" button, related to this function, is available in COOL mode only.

Connecting/Operating the air conditioner

Connect the air conditioner to the power source.

1. Press "MODE" button and select COOL mode.
2. Select your desired temperature by pressing "TEMP" buttons.
3. Press "ON/OFF" button to start the air conditioner.
4. Press "TURBO" button: Unit will blow strong cooling air at super high fan speed.

To cancel TURBO function

Press again "TURBO" button to cancel the function.

Stop

Press "ON/OFF" button on remote control to stop the air conditioner's operation.

NOTE:

- After about 20 minutes since "TURBO" function was activated, the Unit will automatically revert back to the previous settings.

⚠ WARNING

1. Do not insert the power plug into broken or worn power socket outlets, or to a multiple socket outlet which is also being used for other electrical appliances.

2. Avoid the air conditioner to operate under the following conditions:
- If heating sources or flames are too close to the unit.
- In places where oil leakage or sprinkling may occur.
- If the air conditioner is exposed to direct sunlight.
- In places where water leakage or sprinkling or vapors may reach the Unit (near a bath, a shower or a swimming pool).

3. Never insert your fingers nor any objects into the air outlet grilles of the air conditioner. Take care about this especially if there are children playing close to the Unit.

4. Keep the Unit always in vertical position on the ground, so that the compressor is allowed to run under normal operating conditions.

5. Before you clean the external parts of the Unit, make sure the power cord is unplugged from the power outlet.

6. Do not put any cover on the air conditioner while it is operating, to avoid overheating.

7. In case the R410A refrigerant quantity inside the unit should change (for example if a refrigerant leakage is detected), the correct amount of refrigerant must be restored. If so, you must contact a Technical Service Point authorized by the local Distributor, because special equipment and know-how are required.

8. In case of malfunctions, never try to disassemble or service the air conditioner by yourself. Do not try to replace the power plug by yourself. Always contact the Technical Service Point authorized by the local Distributor, because inside the Unit there are no parts which can be serviced by the User.

9. Carefully read this User's Manual to learn as much as possible about the air conditioner's operating modes and to avoid misunderstanding between normal operation and real malfunctions of the device.

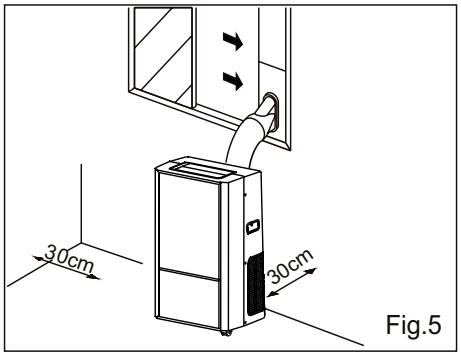


Fig.5

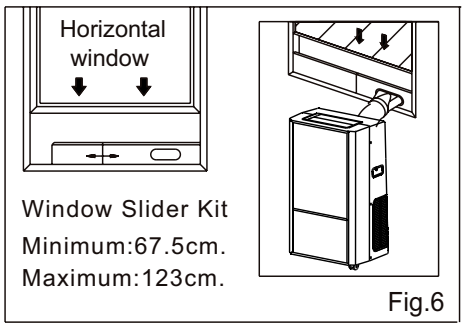


Fig.6

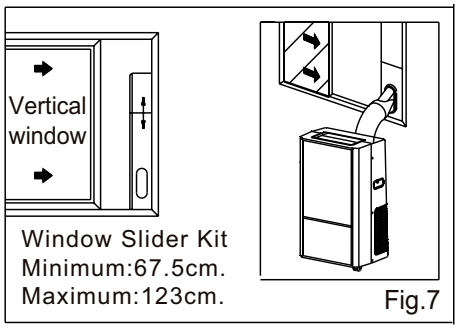


Fig.7

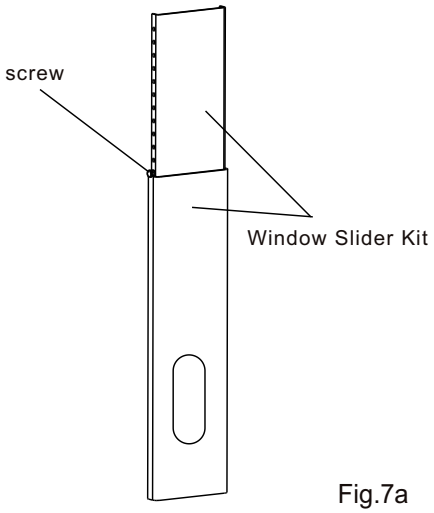


Fig.7a

INSTALLATION INSTRUCTIONS

- The air conditioner should be placed on a firm foundation to minimize noise and vibration.
  For safe and secure positioning, place the Unit on a smooth, level floor strong enough to support the Unit.

- The Unit has casters to aid placement, but it should only be rolled on smooth, flat surfaces. Use caution when rolling on carpet surfaces. Do not attempt to roll the Unit over objects.

- The Unit must be placed within reach of a properly rated grounded socket. The plug must be accessible after appliance is positioned. Electrical wiring must be done acording to Local and National rules.

- Never place any obstacles around the air inlet or outlet of the Unit.

- Allow at least 30cm of space from the wall for efficient air-conditioning.

WINDOW SLIDER KIT INSTALLATION

Your slider window kit has been designed to fit most standard “vertical” and “horizontal” window applications. However, it may be necessary for you to modify some aspects of the installation procedures for certain types of window.
Please refer to Fig. 6 and Fig. 7 for minimum and maximum window openings.
Window slider kit can be fixed with a screw (Fig. 7a).

Note: If the window opening is less than the mentioned minimum length of the window slider kit, cut the kit to fit for the window opening.

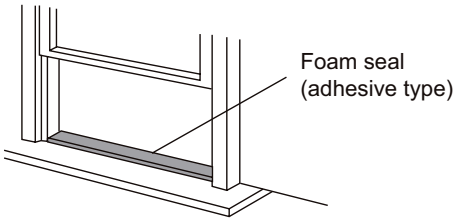


Fig.8

INSTALLATION OF WINDOW KIT ON VERTICAL TYPE WINDOW

1. Cut the foam seal (adhesive type) to the proper length and attach it to the window base (Fig. 8).

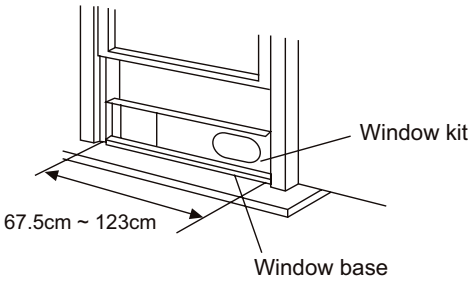


Fig.9

2. Installation of window slider kit:
   - Adjust the length of the window slider kit according to the width of window.
   - Open the window sash and place the window slider kit on the window base (Fig. 9).

3. Cut the foam seal (adhesive type) to the proper length and attach it on the base of window panel (Fig. 10).

4. Close the window sash securely against the window.

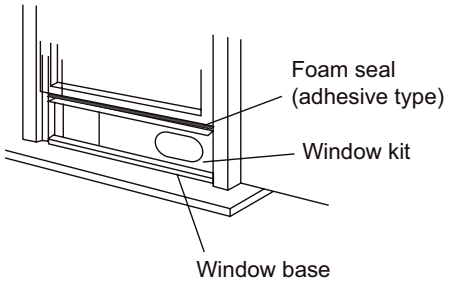


Fig.10

5. Cut the foam seal to an appropriate length ans seal the open gap between the 2 panels of window (Fig. 11).

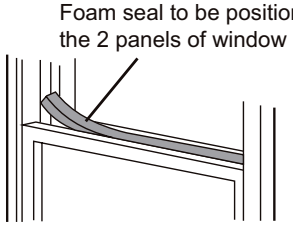


Fig.11

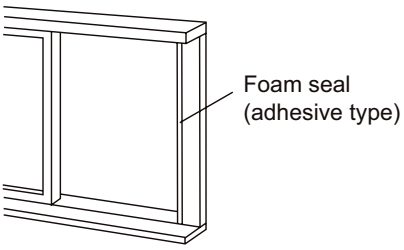


Fig.12

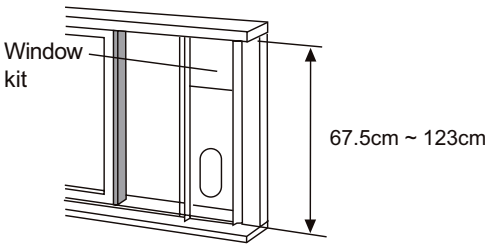


Fig.13

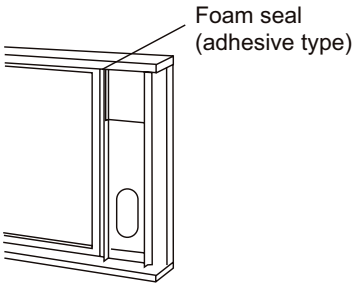


Fig.14

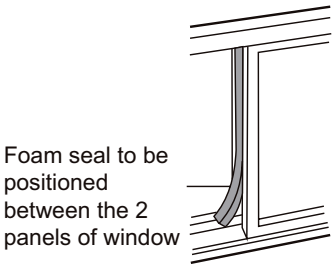


Fig.15

INSTALLATION OF WINDOW KIT ON HORIZONTAL TYPE WINDOW

1. Cut the foam seal (adhesive type) to the proper length and attach it to the window sash (Fig. 12).

2. Installation of window slider kit:
   - Adjust the length of the window slider kit according to the width of window.
   - Open the window sash and place the window slider kit on the window (Fig. 13).

3. Cut the foam seal (adhesive type) to the proper length and attach it to the window panel (Fig. 14).

4. Close the window sash securely against the window.

5. Cut the foam seal to an appropriate length and seal the open gap between the 2 panels of window (Fig. 15).

EXHAUST HOSE INSTALLATION

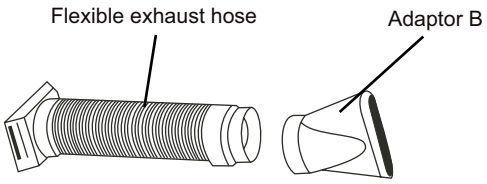


Fig.16

The exhaust hose and adaptor must be installed or removed in accordance with the operation mode:

COOL HEAT AUTO	Install the exhaust hose
FAN DEHUMIDIFY	Remove the exhaust hose

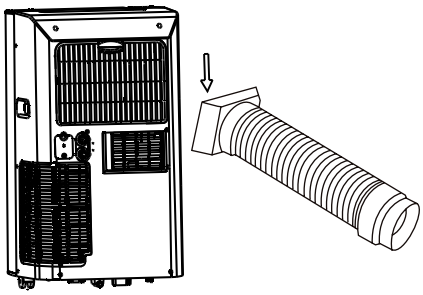


Fig.17

1. Install the adaptor B on the exhaust hose, as it is shown in Fig. 16.
   Please refer to the previous pages for window kit installation.
2. Install the flexible exhaust hose as it is shown in Figures 17 & 18.

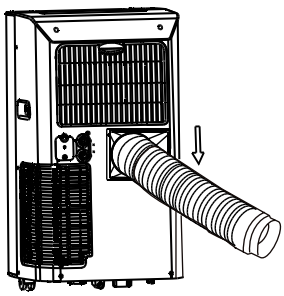


Fig.18

WATER DRAINAGE

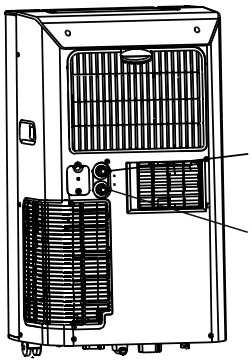


Fig.19

- During Dehumidifying mode, remove the drain plug A from the back of the Unit (Fig. 19) and install the drain connector (5/8” universal female) with 3/4” drain hose (supplied with the air conditioner).

- During Heating mode, remove the drain plug B from the back of the Unit (Fig. 19) and install the drain connector (5/8” universal female) with 3/4” drain hose (supplied with the air conditioner). Make sure the drain outlet A is plugged.

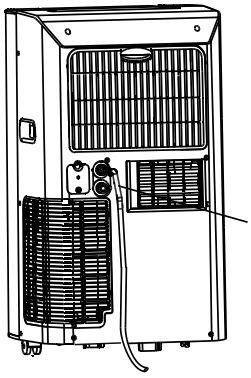


Fig.20

- For the Models without drain connector, just attach the drain hose to the hole.
  Insert the other end of the drain hose into an external vessel, so that condensate water will be conveyed to it through the drain hose.

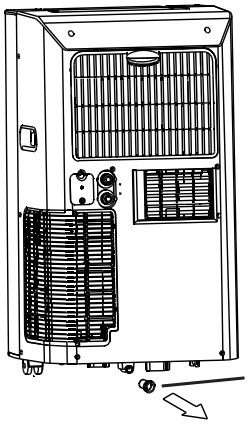


Fig.21

- When the water level of the bottom tray reaches a predetermined level, the Unit beeps 8 times and the digital display area shows “P1” Code: Unit stops operation.
  Disconnect the air conditioner from the power plug and carefully move the Unit to a drain location. Remove the bottom drain plug and let the water drain away (Fig. 21). Restart the machine until the “P1” symbol disappears. If the error repeats, call for the Authorized Technical Service.

NOTE: When the relative humidity is less than 80%, the water drainage is not needed during Cooling operation.
If performing above water drainage during cooling operation, the cooling efficiency will be reduced.

CLEANING & MAINTENANCE

⚠ CAUTION!

Before performing any maintenance opration, check that the power plug is disconnected from the wall power socket.
Please follow the instructions below:

1. Cleaning of Air Filters

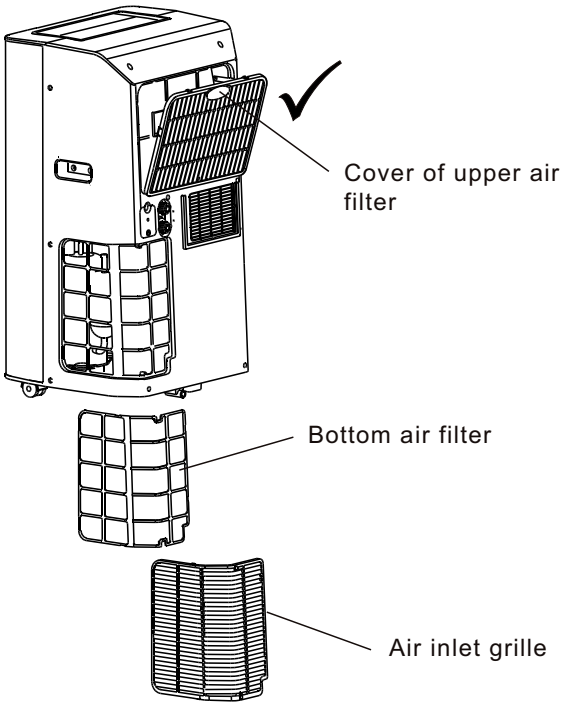


Fig.22

- If filters are dirty, the appliance's performance decreases. Please clean the filters at regular intervals, every two weeks.

- *Removal:*
  Pull out the cover of the upper filter on the rear of the Unit. Remove the filter from its filter cover, by sliding it upwwards.

  Then, remove the screw on the inlet grille besides the Unit, and pull out the bottom filter.

- *Cleaning:*
  Wash the filters by immersing it gently in tepid water (max 40°) and neutral detergent. Rinse the filters and dry them in a shady place.

- *Mounting:*
  Replace the upper filter to its cover and fix again the filter cover to the Unit.
  Replace the bottom filter to Unit and re-install the inlet grille. Fix the inlet grille by the screw previously removed.

CAUTION:
Never operate the Unit without the air filters in place, as this may result in damage to the Unit.

2. Cleaning the outside of the air conditioner

Clean the outside of the Unit by using a soft cloth soaked with neutral detergent.
Do not use any solvent, by-products of oil, abrasive powders or chemical products in general in order to avoid damaging the plastic external surfaces.
Rinse and dry the Unit always by using soft clothes.
Never wash the Unit directly under a tap or using a hose!

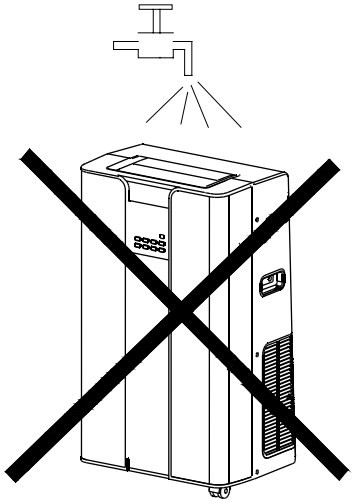


Fig.23

3. If the air conditioner is not used for a long time

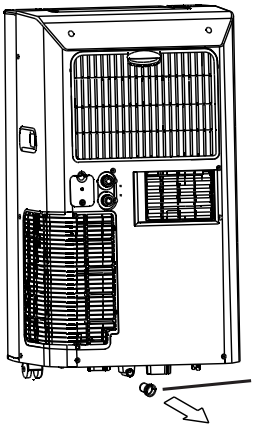


Fig.24

- When you plan to leave this Unit unused for a long time, remove the bottom rubber plug from the back hole and attach a section of the drain pipe - supplied with the air conditioner - to the drain fitting. Insert the other end of the drain hose into an external vessel, so that condensate water will be conveyed to it throug the drain hose (Fig. 24).
- Keep the air conditioner running in FAN mode for 12 hours to dry the appliance inside and prevent mould forming.
- Stop the appliance and unplug it, wrap the cord and bundle it with the tape.
  Remove the batteries from the remote controller.
- Clean the air filters and reinstall them.
- Disconnect the exhaust hose and keep it safety.

PRELIMINARY CHECKS TO BE PERFORMED

before starting real troubleshooting procedures, compare the malfunction with those listed in the following table. You could easily solve the problem by yourself.

TROUBLES	POSSIBLES CAUSES	SUGGESTED REMEDIES
1. UNIT DOES NOT START WHEN PRESSING "POWER" BUTTON (On/Off)	Water full indicator blinks, water tank is full.	Drain the water tank.
	Room temperature is higher than the set temperature (Heating mode).	Reset the temperature.
	Room temperature is lower than the set temperature (Cooling mode).	Reset the temperature.
2. UNIT STOPS AUTOMATICALLY	The programmed time for automatic stop of air conditioner has been reached, or the set temperature has been reached.	Restart the Unit and check if room temperature has been reached.
3. NOT COOL ENOUGH	The windows or doors in the room are not closed.	Make sure all the windows and doors are closed.
	There are heat sources inside the room.	Remove the heat sources if possible.
	Exhaust air duct is not connected or blocked.	Connect the duct and make sure it can function properly.
	Temperature setting is too high.	Decrease the set temperature.
	Air filters are blocked by dust.	Clean the air filters.
4. POWER SHUT OFF AT HEATING MODE	Intervention of protection function against overheating. When the temperature at the air outlet exceeds 70°C / 158°F, Unit stops.	Switch on again after the Unit has cooled down.
5. NOISY OR VIBRATION	The ground is not level or not flat enough.	Place the Unit on a flat, level ground if possible.
6. GURGLING SOUND	The sound comes from the flowing of the refrigerant inside the air conditioner.	It is not a malfunction. This is due to normal operation.

• If you have already performed all the previously listed verifications, but the dehumidifier does not operate properly, contact your dealer or the nearest Authorized Service Center, mentioning the model name and giving a short description of the malfunction.
• Keep the purchase coupon in a safe place and show it to your dealer or to the personnel of the Authorized Service Center if the Unit needs to be repaired.

ERROR CODES

CODE	PROBLEM
Compressor does not work and the digital display area shows “P1”.	The bottom tray is full. Remove the bottom rubber plug and drain the collected water away. If it does not work after restart, contact the Authorized Technical Service.
The Cooling indicator light flashes at 1Hz and the digital display area shows “E1”.	The room temperature sensor is off or short-circuit . Contact the Authorized Technical Service.
The FAN indicator light flashes at 1Hz and the digital display area shows “E2”.	The evaporator temperature sensor is off or short-circuit. Contact the Authorized Technical Service.
The Dehumidifying indicator light flashes at 1Hz and the digital display area shows “E3”.	The condenser temperature sensor is off or short-circuit. Contact the Authorized Technical Service.

Manufacturer / Costruttore / Fabricant / Fabricante / Hersteller / Fabrikant		HOKKAIDO
Model Modello Modèle Modelo Modell Modell	Outdoor Unit / Unità Esterna / Unité Extérieure Unidad Externa / Außengerät / Buitenapparaat	HMCI 125 F-EH
	Indoor Unit / Unità Interna / Unité Intérieure Unidad Interna / Innengerät / Binnenapparaat	
Cooling / Raffreddamento / Refroidissement / Frío / Køling / Alleen koeling Energy efficiency class on a scale of **A** (more efficent) to **G** (less efficient) Classe di efficienza energetica su una scala da **A** (bassi consumi) a **G** (alti consumi) Classement selon son efficacité énergétique sur une échelle allant de **A** (économe) à **G** (peu économe) Clase de eficiencia energética en una escala desde **A** (bajo consumo) hasta **G** (alto consumo) Energieeffizienzklasse auf einer Skala von **A** (niedriger Verbrauch) bis **G** (hoher Verbrauch) Energieefficiëntieklasse op een Schaal van **A** (efficiënt) tot **G** (inefficiënt)		A
Annual energy consumption (kWh) in cooling mode Consumo annuo di energia (kWh) in modalità raffreddamento Consommation annuelle d'énergie (kWh) en mode refroidissement Consumo anual de energía (kWh) en modo Frío Jährlicher Energieverbrauch (kWh) im Kühlbetrieb Jaarlijks Energieverbruik (kWh) in Koelstand		680
Cooling output (kW) / Potenza refrigerante (kW) / Puissance frigorifique (kW) Potencia refrigerante (kW) / Kühlleistung (kW) / Koelvermogen (kW)		3.55
Energy efficiency ratio (EER) at full load Indice di efficienza energetica (EER) a pieno regime Niveau de rendement énergétique (EER) à pleine charge Índice de eficiencia energética (EER) a pleno rendimiento Energie-Effizienz-Schlüssel (EER) bei Vollast-Nutzung Energie-Efficiëntie-Verhouding (EER) volle belastingSchlüssel		2.61
Type Tipo Type Tipo Typ Type	Cooling only / Solo raffreddamento / Refroidissement seulement / Sólo Frío / Køling / Alleen koeling	←
	Cooling/heating / Raffreddamento/riscaldamento / Refroidissement/chauffage / Frío/Calor / Kühlfunktion/Heizfunktion / Koeling/Verwarming	
	Air cooled / Raffreddamento ad aria / Refroidissement par air / Frío por aire / Luftkühlung / Luchtgekoeld	←
	Water cooled / Raffreddamento ad acqua / Refroidissement par eau / Frío por agua / Wasserkühlung / Watergekoeld	
Heat output (kW) / Potenza di riscaldamento (kW) / Puissance de chauffage (kW) Potencia de Calor (kW) / Heizleistung (kW) / Verwarming-svermogen		
Heating / Riscaldamento / Chauffage / Calor / Heizfunktion / Verwarming Energy efficiency class on a scale of **A** (more efficent) to **G** (less efficient) Classe di efficienza energetica su una scala da **A** (bassi consumi) a **G** (alti consumi) Classement selon son efficacité énergétique sur une échelle allant de **A** (économe) à **G** (peu économe) Clase de eficiencia energética en una escala desde **A** (bajo consumo) hasta **G** (alto consumo) Energieeffizienzklasse auf einer Skala von **A** (niedriger Verbrauch) bis **G** (hoher Verbrauch) Energieefficiëntieklasse op een Schaal van **A** (efficiënt) tot **G** (inefficiënt)		

NOTES

NOTES

Termal Group

HOKKAIDO Srl
14, Via della Salute
40132 Bologna - Italy
Tel. +39.051.41.33.111
Fax +39.051.41.33.112
www.hokkaido.eu
www.termalgroup.com

Due to on-going technological development of the Products by the Manufacturer, we reserve the right to vary the technical specifications at any time and without notice.